

**WEST**

Generate Collection

L1: Entry 3 of 5

File: USPT

Mar 30, 1993

DOCUMENT-IDENTIFIER: US 5199070 A

TITLE: Method for generating a public key

## BSPL:

Note that (mod  $q$ ) represents an equation in which the residue is determined by dividing by  $q$ . Given  $S$ ,  $q$  and  $g$  in equation [1],  $P$  is easily calculated. If  $P$ ,  $q$ , and  $g$  are known, however, determining  $S$  becomes more and more difficult as  $q$  increases.  $S$  is called a discrete logarithm of  $P$  wherein  $q$  is its modulus and  $g$  is its base. Determining  $S$  is well known as the discrete logarithm problem.

## DEPR:

In any of the embodiments 1 through 4,  $g$  is a primitive root of the residue-class field with  $q$  as modulus. The primitive root  $g$  is a positive integer equal to or less than  $(q-1)$ , with  $q$  assumed to be a prime number, and the primitive root  $g$  to  $(q-1)$ st power is 1 in connection with mod  $q$  ( $g.\text{sup.} q-1 = 1 \text{ mod } q$ ). Alternatively, an integer  $g'$  may replace  $g$ , by using a divisor  $q'$  of  $(q-1)$ ; thus,  $g'$  to  $q'$  power is 1 in connection with mod  $q$  ( $g.\text{sup.} q' = 1 \text{ mod } q$ ,  $q'$ : the divisor of  $q-1$ ). This is fully discussed in the paper authored by C. P. Schnorr, entitled "Efficient Identification and Signatures For Smart Cards" in Proc. CRYPT089. Although the use of  $g'$  provides less security against an exhaustive attack to cope with the discrete logarithm problem, compared with the case where the primitive root  $g$  is used, the workload involved in calculations on the users is alleviated. For example, calculation process amount of the public key generation step in the first embodiment is approx.  $(1.5.\text{times}.\log .\text{sub.}2 q' + 0.25.\text{times}.\log .\text{sub.}2 H_i)$  times of residue of the multiplication calculation process per  $\log .\text{sub.}2 q$  bit width on average. To assure sufficient security, in this case, a value of 140 bits or larger may be used for  $q'$ . Substituting 140 for  $\log .\text{sub.}2 q'$ , and 128 for  $\log .\text{sub.}2 H_i$ , results in 242 as the number of iteration in calculation. Therefore, it is almost three times as fast as the first embodiment.

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Generate Collection

L1: Entry 4 of 5

File: TDBD

Nov 1, 1990

DOCUMENT-IDENTIFIER: NB9011166

TITLE: Fast Division Using Table Look-Up.

## TBTX:

- Described is a method of converting a 'Logical Block Address' to cylinder track and sector values on a microprocessor without a divide instruction. After breaking the dividend into bytes, look-up tables are used to find quotients and remainders. Carries are used while computing the remainder to adjust the quotient. Speed is gained at the expense of table space. - Microprocessors which do not have a built-in divide instruction need software algorithms to perform division. These are usually implemented as a loop, containing subtraction and shifting operations, executed as many times as there are bits in the dividend and, in consequence, are slow. When the divisor is a known constant and if execution time is critical, a faster algorithm is required. - An example is when dividing a logical block address (LBA) received in a SCSI command by the number of sectors per cylinder, to get the cylinder address. The remainder of the division is then further divided by the number of heads, to get the track and sector numbers. - The advantages of this algorithm are fast execution with both quotient and remainder generated. When dividing an N-byte number (the dividend) by a given constant divisor (K), the dividend is first split up into N parts, at byte boundaries. - Example: (N=3) '123456'x = '120000'x + '3400'x + '56'x  
 i2='12'x i1='34'x i0='56'x Each index i is then used as an index into a table of 256 entries which gives both the quotient and remainder when that part of the dividend is divided by divisor K. - Thus, i2 in the example is used as an index into Table2 which contains entries: i2 quotient remainder 0 '00000'x DIV K  
 '00000'x MOD k 1 '10000'x DIV K '10000'x MOD k 2 '20000'x DIV K '20000'x MOD k :  
 : : : : 255 'FF0000'x DIV K 'FF0000'x MOD k Similar tables Table1 and Table0 are used with i1 and i0. - This results in N quotient values and N remainder values being extracted from the tables; quotient values are summed to give a total Q. The remainder values are then also added, giving R, with a test after each addition for whether the sum exceeds the divisor K. If it does, K is subtracted and Q is incremented by 1. There are N-1 addition operations to generate R. The result is the quotient Q and remainder R. - A few short-cuts may be applied to reduce the amount of storage occupied by the tables. If the divisor exceeds '100'x, then the remainders in Table0 will be equal to the index i0, and so the 'remainder' half of Table0 is unnecessary. If the divisor exceeds '10000'x, then this applies to Table1 also, etc. Should the range of dividend values be restricted, then not all of the most-significant table is required. For example, with N=3, if the dividend never exceeds '1FFFFFF'x, then Table2 need only have the first '20'x entries.

**WEST**

Generate Collection

L1: Entry 1 of 5

File: USPT

Aug 14, 2001

DOCUMENT-IDENTIFIER: US 6275311 B1

TITLE: Optical device for processing an optical digital signal

## DEPR:

So far, the decoding algorithm has been implemented by electronic digital hardware based on serial data processing (U.S. Pat. No. 5,402,429; Maniatopoulos A. et al., "Single-bit error-correction circuit for ATM interfaces", Electronics Letters, 31, No. 8, 617-618, 1995; Maniatopoulos A. et al., "Implementation issues of the ATM cell delineation mechanism", Electronics Letters, 32, No. 11, 963-965, 1996). The decoder is usually a simple dedicated DSP circuit employing a serial shift register as fundamental device, essentially able to perform a binary polynomial division. The scheme of such circuit is well known (FIG. 13). To divide two polynomials the shift register must have a number of flip-flop cells equal to the degree of the divisor, and a pattern of logic "feedback loops" configured according to the coefficients of the divisor. Each feedback loop feeds bits from the last stage of the shift register to a summing node (modulo-2 sum, or XOR). Into the summing nodes the back fed bits are added to the output of an intermediate flip-flop. Before starting the operation, all flip-flops must be cleared. The dividend bits flow sequentially into the first flip-flop starting from the most significant, and at each clock pulse they are shifted one step towards the last cell. When the last dividend bit has entered the device the division remainder bits are kept stored into the memory cells of the shift register. They can be read from the output by shifting again, after all the feedback loops have been opened.

**WEST**

Generate Collection

L10: Entry 2 of 14

File: USPT

Sep 26, 2000

DOCUMENT-IDENTIFIER: US 6125380 A

TITLE: Dividing method

BSPR:

The shift-dividing have following steps. At first an initial value is set for a counting value. Secondly, the high-byte remainder is leftwardly shifted one bit to obtain a number. Then, the divisor is subtracted from the number to update the high-byte remainder and the counting value is added to the low-byte quotient to update the high-byte quotient when the number is not less than the divisor. The counter is circularly and rightwardly shifting one bit. Finally, the step that the high-byte remainder is leftwardly shifted one bit is repeated until the counting value returns to the initial value.

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Term	Documents
MODULO.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	16147
MODULOES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
MODULOS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	70
MODULOE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
MODULI.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	7221
MODULIS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	24
MOD.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	15280
MODS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	305
MODULUS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	114339
MODULU.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	34
(L7 AND (MODULO OR MODULI OR MOD OR MODULUS)SAME(REMAINDER OR RESIDU\$3) SAME DIVI\$7 SAME (ITERAT\$8 OR LOOP\$4 OR BRANCH\$4 OR RECUR\$7) SAME REED\$1 SOLOMON ) .USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	0

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17 and (modulo or moduli or mod or  
modulus)same(remainder or residu\$3) same  
divi\$7 same

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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(modulo or moduli or mod or modulus)same(remainder or residu\$3) same divi\$7 same (iterat\$8 or loop\$4 or branch\$4 or recur\$7)	74	<u>L7</u>
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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(remain\$4 or residu\$3) same divi\$7 same (iterat\$8 or loop\$4 or branch\$4 or recur\$7)	4475	<u>L5</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(modulo or moduli or mod or modulus)same (remain\$4 or residu\$3) same divi\$7 same (iterat\$8 or loop\$4 or branch\$4 or recur\$7) same (bit or binary or digit\$4) same (divisor or dividend)	5	<u>L4</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	('NB9011166')[ABPN1,NRPN,PN,TBAN,WKU]	1	<u>L3</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	('5199070' 'NB9011166' '5928315' '6275311' 'NN72053726')[ABPN1,NRPN,PN,TBAN,WKU]	9	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	( (((modulo or moduli or mod or modulus)same (remain\$4 or residu\$3) same divi\$7 )and (modulo or moduli or mod or modulus)same (remain\$4 or residu\$3) same divi\$7 same (iterat\$8 or loop\$4 or branch\$4) )and (modulo or moduli or mod or modulus)same (remain\$4 or residu\$3) same divi\$7 same (iterat\$8 or loop\$4 or branch\$4) same (bit or binary or digit\$4) ) and (modulo or moduli or mod or modulus)same (remain\$4 or residu\$3) same divi\$7 same (iterat\$8 or loop\$4 or branch\$4) same (bit or binary or digit\$4) same (divisor or dividend) )	5	<u>L1</u>

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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	('6275311'  '5199070'  'NB9011166'  '5928315'  'NN72053726')[ABPN1,NRPN,PN,TBAN,WKU]	9	L
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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	12 and (modulo or moduli or mod or modulus)same (remain\$4 or residu\$3) same divi\$7 same (iterat\$8 or loop\$4 or branch\$4) same (bit or binary or digit\$4)	31	L
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	('6275311')[ABPN1,NRPN,PN,TBAN,WKU]	2	L
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	11 and (modulo or moduli or mod or modulus)same (remain\$4 or residu\$3) same divi\$7 same (iterat\$8 or loop\$4 or branch\$4)	97	L
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(modulo or moduli or mod or modulus)same (remain\$4 or residu\$3) same divi\$7	1718	L



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MOD.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	15280
MODS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	305
MODULUS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	114339
MODULU.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	34
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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	('5867412')[ABPN1,NRPN,PN,TBAN,WKU]	3	<u>L</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	19 and (remainder or residu\$3) same divi\$7 same(combin\$6 or add\$8 or sum\$7 or sub\$1tract\$3)near (low\$3 or up\$3)near (bit or number or digit or value)	14	<u>L</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(combin\$6 or add\$8 or sum\$7 or sub\$1tract\$3)near (low\$3 or up\$3)near (bit or number or digit or value)	1823	<u>L</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	17 and (modulo or moduli or mod or modulus)same(remainder or residu\$3) same divi\$7 same (iterat\$8 or loop\$4 or branch\$4 or recur\$7) same reed\$1solomon	0	<u>L</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(modulo or moduli or mod or modulus)same(remainder or residu\$3) same divi\$7 same (iterat\$8 or loop\$4 or branch\$4 or recur\$7)	74	<u>L</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	15 and (modulo or moduli or mod or modulus)same(remain\$4 or residu\$3) same divi\$7 same (iterat\$8 or loop\$4 or branch\$4 or recur\$7)	104	<u>L</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(remain\$4 or residu\$3) same divi\$7 same (iterat\$8 or loop\$4 or branch\$4 or recur\$7)	4475	<u>L</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(modulo or moduli or mod or modulus)same (remain\$4 or residu\$3) same divi\$7 same (iterat\$8 or loop\$4 or branch\$4 or recur\$7) same (bit or binary or digit\$4) same (divisor or dividend)	5	<u>L</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	('NB9011166')[ABPN1,NRPN,PN,TBAN,WKU]	1	<u>L</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	('5199070'  'NB9011166'  '5928315'  '6275311'  'NN72053726')[ABPN1,NRPN,PN,TBAN,WKU]	9	<u>L</u>
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(bit or binary or digit\$4) same (divisor or  
dividend) )

**WEST****Search Results - Record(s) 1 through 20 of 34 returned.**

L13: Entry 1 of 34

File: USPT

Nov 14, 2000

US-PAT-NO: 6148203

DOCUMENT-IDENTIFIER: US 6148203 A

TITLE: Method for registering a communication device for communication service

DATE-ISSUED: November 14, 2000

US-CL-CURRENT: 455/434; 455/166.1, 455/435, 455/62

INT-CL: [7] H04Q 7/20

L13: Entry 2 of 34

File: USPT

Sep 26, 2000

US-PAT-NO: 6125380

DOCUMENT-IDENTIFIER: US 6125380 A

TITLE: Dividing method

DATE-ISSUED: September 26, 2000

US-CL-CURRENT: 708/650; 708/653

INT-CL: [7] G06F 7/52

L13: Entry 3 of 34

File: USPT

Feb 2, 1999

US-PAT-NO: 5867412

DOCUMENT-IDENTIFIER: US 5867412 A

TITLE: Modular multiplication device for information security

DATE-ISSUED: February 2, 1999

US-CL-CURRENT: 708/491; 380/28, 708/620

INT-CL: [6] G06F 7/38

L13: Entry 4 of 34

File: USPT

Feb 3, 1998

US-PAT-NO: 5715376

DOCUMENT-IDENTIFIER: US 5715376 A

TITLE: Data transformation apparatus

DATE-ISSUED: February 3, 1998

US-CL-CURRENT: 358/1.9; 358/523, 358/525

INT-CL: [6] H04N 1/56

L13: Entry 5 of 34

File: USPT

Apr 8, 1997

US-PAT-NO: 5619440

DOCUMENT-IDENTIFIER: US 5619440 A

TITLE: Multiplier circuit with rounding-off function  
DATE-ISSUED: April 8, 1997

US-CL-CURRENT: 708/620; 708/551

INT-CL: [6] G06F 7/52

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L13: Entry 6 of 34

File: USPT

Aug 22, 1995

US-PAT-NO: 5444647  
DOCUMENT-IDENTIFIER: US 5444647 A

TITLE: Multiplier circuit and division circuit with a round-off function  
DATE-ISSUED: August 22, 1995

US-CL-CURRENT: 708/650

INT-CL: [6] G06F 7/52

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L13: Entry 7 of 34

File: USPT

May 10, 1994

US-PAT-NO: 5311192  
DOCUMENT-IDENTIFIER: US 5311192 A

TITLE: Polarization ECCM technique for radar systems  
DATE-ISSUED: May 10, 1994

US-CL-CURRENT: 342/188; 342/159, 342/17, 342/19

INT-CL: [5] G01S 7/36

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L13: Entry 8 of 34

File: USPT

Apr 27, 1993

US-PAT-NO: 5206826  
DOCUMENT-IDENTIFIER: US 5206826 A

TITLE: Floating-point division cell  
DATE-ISSUED: April 27, 1993

US-CL-CURRENT: 708/504; 708/650, 708/655

INT-CL: [5] G06F 7/38, G06F 7/52

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L13: Entry 9 of 34

File: USPT

Jan 26, 1988

US-PAT-NO: 4722069  
DOCUMENT-IDENTIFIER: US 4722069 A

TITLE: Nonrestoring divider  
DATE-ISSUED: January 26, 1988

US-CL-CURRENT: 708/656

INT-CL: [4] G06F 7/52

---

L13: Entry 10 of 34

File: USPT

Feb 20, 1979

US-PAT-NO: 4141077  
DOCUMENT-IDENTIFIER: US 4141077 A

TITLE: Method for dividing two numbers and device for effecting same  
DATE-ISSUED: February 20, 1979

US-CL-CURRENT: 708/656

INT-CL: [2] G06F 7/52

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L13: Entry 11 of 34

File: USPT

Oct 5, 1976

US-PAT-NO: 3983745  
DOCUMENT-IDENTIFIER: US 3983745 A

TITLE: Test specimen crack correlator  
DATE-ISSUED: October 5, 1976

US-CL-CURRENT: 73/789; 73/799, 73/805, 73/808

INT-CL: [2] G01N 3/36

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L13: Entry 12 of 34

File: JPAB

Mar 12, 1993

PUB-NO: JP405061649A  
TITLE: DIVIDER CIRCUIT  
PUBN-DATE: March 12, 1993

INT-CL (IPC): G06F 7/52; G06F 7/00, G06F 9/44

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L13: Entry 13 of 34

File: EPAB

Feb 2, 1999

PUB-NO: US005867412A  
TITLE: Modular multiplication device for information security  
PUBN-DATE: February 2, 1999

INT-CL (IPC): G06F 7/38  
EUR-CL (EPC): G06F007/72

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L13: Entry 14 of 34

File: EPAB

Feb 3, 1998

PUB-NO: US005715376A  
TITLE: Data transformation apparatus  
PUBN-DATE: February 3, 1998

INT-CL (IPC): H04N 1/56  
EUR-CL (EPC): G06F017/17 ; H04N001/60

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L13: Entry 15 of 34

File: EPAB

Apr 8, 1997

PUB-NO: US005619440A  
TITLE: Multiplier circuit with rounding-off function  
PUBN-DATE: April 8, 1997

INT-CL (IPC): G06F 7/52  
EUR-CL (EPC): G06F007/52 ; G06F007/52

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L13: Entry 16 of 34

File: EPAB

Aug 22, 1995

PUB-NO: US005444647A  
TITLE: Multiplier circuit and division circuit with a round-off function

PUBN-DATE: August 22, 1995

INT-CL (IPC): G06F 7/52

EUR-CL (EPC): G06F007/52 ; G06F007/52

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L13: Entry 17 of 34

File: EPAB

May 10, 1994

PUB-NO: US005311192A

TITLE: Polarization ECCM technique for radar systems

PUBN-DATE: May 10, 1994

INT-CL (IPC): G01S 7/36

EUR-CL (EPC): G01S007/36

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L13: Entry 18 of 34

File: EPAB

Jun 17, 1993

PUB-NO: DE004141077A1

TITLE: After-waxing installation for sizing unit - comprises slop trough contg. overflow for application substance

PUBN-DATE: June 17, 1993

US-CL-CURRENT: 68/202

INT-CL (IPC): D06B 1/14; D06B 23/24

EUR-CL (EPC): D06B001/14 ; D06B023/24

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L13: Entry 19 of 34

File: EPAB

Apr 27, 1993

PUB-NO: US005206826A

TITLE: Floating-point division cell

PUBN-DATE: April 27, 1993

INT-CL (IPC): G06F 7/38; G06F 7/52

EUR-CL (EPC): G06F007/52

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L13: Entry 20 of 34

File: EPAB

Jan 26, 1988

PUB-NO: US004722069A

TITLE: Nonrestoring divider

PUBN-DATE: January 26, 1988

INT-CL (IPC): G06F 7/49

EUR-CL (EPC): G06F007/49 ; G06F007/52

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